

Abstract

An improved high-pressure pump (1) for an accurate, largely
pulsation-free flow of the working medium, more particularly
5 an HPLC pump, includes one or a plurality of the following
measures:

- reduced dead space due to adapted seals (48, 70);
- reduced dead space thanks to a device (15, 16; 32; 36, 38)
for adjusting the length of the displacement piston;
- 10 - adjustable dead space and therefore adjusting capability
of the pulsation freedom through a displacement chamber
provided with an adjustable opposed piston (58); and
- seals compensating construction tolerances by a
combination of a cambered sealing surface and a conical
15 sealing surface.

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(Fig. 1)